

PULP PAPER & LOGISTICS

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MIAC
International Exhibition of Paper Industry
2018

**MIAC 2018
Preview
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COMMENT

Welcome to the September-October issue of Pulp, Paper & Logistics. As ever at this time of the year we are looking forward to the MIAC show in Lucca Italy. Not only is it our 50th issue but also the 25th anniversary of MIAC, which continues to be one of the staple events for suppliers, products and services to the growing tissue-related global market.

Pulp Paper & Logistics magazine is driven by the industry we serve and from continuing feedback from readers we will incorporate the most important subjects into the issues being published in 2019. There four key reasons to be involved with the magazine, either in print or the on-line PDF version:

Increase in circulation

Having completed our annual reader re-registration it is pleasing to note that while we have nominally increased the circulation of the print issue there has been a significant increase in the number of requests for the full PDF version.

High pass-on rate

Last year we asked readers about their use of the full PDF version and on average they passed it to a minimum of two other individuals. This appears to have driven a surge in requests for regular receipt of the magazine in this format.

Influential reader profile

Most readers are those who can influence or authorise a purchase. More than 87 per cent are based at paper, tissue, board or packaging manufacturers/mills, with job titles that range from chief executive level to mill managers. The remaining 13 per cent represent suppliers to the pulp and paper industry, consultants, government and converters. When the requests are combined for both the printed issue and full PDF sent online the reach of Pulp Paper & Logistics exceeds 18,500 individuals, even without counting pass-on readers.

Content relevant to readers

Another part of the positive feedback from the readers has been the relevancy of the magazine's content, and how they felt it related to their activity, all the way from the production process through to the shipping of the finished product.

See you at MIAC in Lucca.

Vince Maynard. Publisher

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PULP PAPER & LOGISTICS

Smurfit Kappa celebrates 40 years of powering Piteå



Smurfit Kappa this year celebrates the 40th anniversary of providing a renewable source of heating for the residents of Piteå in Sweden.

In 1978, the Piteå Paper Mill started working with local energy provider PiteEnergi to use secondary heat from the mill to meet the requirements of local residents.

Located in Northern Sweden, Piteå experiences heavy snowfall in the winter months so a reliable source of heating is critical.

What started as provision for a small area has now expanded with continuing investment in innovative technology including a heat exchanger and flue

gas cooler. Today, more than 3,700 buildings in central Piteå, including three indoor baths and a pedestrianised street, are now powered by the district heating scheme.

Speaking about the milestone, the mill's chief executive Per Sward said: "We are delighted

to celebrate the anniversary of a very successful partnership with PiteEnergi.

communities around our plants and mills."

Daniel Eriksson, head of district heating at PiteEnergi added: "Thanks to the good energy cooperation with Smurfit Kappa Piteå, we have a very well developed heating network in Piteå. Since the start of the cooperation it has developed in a positive direction in a number of ways."

The Piteå Paper Mill produces 700,000 tonnes of kraftliner a year which is in demand across many sectors, particularly for sustainable eCommerce applications.

A number of events to celebrate the 40th anniversary of the partnership have been held throughout the year.

"At Smurfit Kappa, sustainable and circular business practices are embedded throughout all layers of our organisation. We are always looking to how we can work in partnership to benefit the local

Environmental permits for Finnpulp's bio-production pulp mill

Further progress towards the construction of what is expected to be the world's largest-capacity softwood pulp mill has been made with Finnpulp obtaining environmental permits.

The €1.4 billion (US\$1.6bn) bio-production mill, to be constructed at Sorsasalo in the Kuopio region of Finland, will have pulp capacity of 1.2 million tons a year and produce 60,000 tons of tall oil and 1 TeraWatt hour (TWh) of electricity, using 6.7 million cubic metres of wood a year.

The environmental permits obtained by Finnpulp from the Vaasa administrative court in September had taken 18 months.

The permits enable Finnpulp to start financial negotiations for the next phase of the mill project. The Finnish-Chinese owned company is currently carrying out pre-engineering of the plant which is expected to be completed next year.

This includes preparation of the construction stage of the mill's processes, technologies and mill site layouts.

Sustainable 'tactile' paper partly made from grass

German manufacturer of high-quality speciality papers, Zanders has launched an uncoated grass paper with a special tactile feel that is intended for sustainable packaging.

Zangrass offers a 'natural heterogeneous look' with fine grass dots on a greenish-beige background. It is made from 20 to 40 per cent virgin sun-dried grass fibre, the remainder being bleached fresh fibre pulp.

The paper is intended to be used for fruit bowls and vegetable trays in the form of corrugated board, or in carrier bags and for natural cosmetics.

Zanders says that its use saves up to 75 per cent in carbon dioxide emissions in the process chain



compared to pure fibre-based papers.

Completely recyclable and compostable, Zangrass is available in grammages from 120 to 150gsm, with lighter and heavier weights planned.

Zanders was founded in 1829 at Bergisch Gladbach and still operates its mill at Gohrsmühle.

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Corrugated packaging with a curve launched in UK

The manufacture of curved corrugated packaging was demonstrated at September's PPMA show in the UK by collaborators Cepac and Adpak.

Leading independent corrugated producer Cepac teamed up with packaging machinery producer Adpak to showcase the automated application of Arcwise, which is said to be the UK's first curved corrugated pack.

Arcwise technology enables

corrugated board to form new shapes, utilising a radius, enabling the graphical layout to be extended across a range of panels and designs.

Adpak has developed machinery which auto-erects and fills the Arcwise boxes. It enables the production of packs for retail-ready, consumer and transport packaging uses.

Cepac's sales & marketing director, Steve Moss, said: "We are excited to reveal our latest corrugated innovation with our

partners Adpak. The effective automated application of Arcwise is key to developing the market offering to our customers. We are delighted to be demonstrating these new capabilities with Adpak and the licensor of Arcwise, SCA, at the PPMA show. Arcwise opens up new opportunities and technical possibilities across all sectors."

Anthony Farrow, system sales director at Adpak, added "We are very excited to be partnering with Cepac, as the UK's leading



independent producer of performance packing and print solutions, alongside our long-standing partnership with GPI. This new partnership complements our product range and we are looking forward very much to what the future holds."

Kraft paper for shaped packaging

A kraft paper that can be stretched symmetrically for shaped packaging has been launched by Mondi.

The natural look and feel of the brown grade – called Advantage Formable brown – is said to give shaped packaging a distinctive eco-friendly character. It is said therefore to be an ideal grade for many applications in food packaging, such as shallow trays for packing fish, meat or cheese.

"Thanks to our Advantage Formable brown, we are the only company able to offer the material in its natural brown colour," says Paulus Goess, sales director at Mondi Speciality Kraft Paper.

"The new product meets customers' growing demand for more sustainable packaging solutions offering a natural look and feel. Especially within the food packaging industry and the

retail sector, we are observing a clear trend in this direction."

By using the new barrier coated grade, packaging producers can reduce plastics consumption by up to 70 per cent compared with traditional alternatives for shallow trays. "Our solution is more sustainable and has a soft, smooth surface with high barrier functionalities. It provides the flexibility required to produce multiple depths and forms in a natural look and feel without compromising barrier properties," explains Falk Paulsen, sales director at Mondi Coating Zeltweg in Austria.

"A major benefit for converters is the fact that they do not have to change machine settings when converting our coated paper. They can easily switch from other materials to our perFORMing solution."

Mac Papers acquires Atlanta's Wilkerson Packaging

Mac Papers, one of the largest merchant distributors in the south east US, has acquired Wilkerson Packaging Co, an Atlanta-based packaging and facility supplies distribution business established in 1982.

Commenting on the acquisition, the president of Mac Papers Sutton McGhee said: "Mac Papers is pleased that Paul Wilkerson entrusted us with the solid packaging business [that he] and his team have built.

"This acquisition reflects our commitment to offering a broad, diversified product lineup from best-in-class suppliers, and continuing to grow the packaging business alongside our paper and print, facility supplies and office products segments."

Following the closure of one of its Atlanta facilities Mac Papers

is serving customers from its Atlanta branch at 460 Riverside Parkway.

The Wilkerson acquisition is the most recent in a long line of packaging acquisitions Mac Papers has made over the past six years. In 2016, the company acquired Birmingham, Alabama-based packaging company Higdon Paper and Packaging. A year earlier, Mac Papers acquired two Nashville-based packaging companies and in 2013 it purchased Alles Inc, a full-scale distributor of packaging products, systems and services in Hialeah, Florida.

In December 2012, the company acquired All Packaging Supplies, a distributor of industrial and food service packaging supplies located in Pembroke Park, Florida.

Smurfit Kappa pulls out of Venezuela after 'interference'

Smurfit Kappa is pulling out of its carton business in Venezuela following what it describes as the "continuing actions and interference" of the government.

The Ireland-based global paper maker says its wholly-owned subsidiary Smurfit Holdings BV is no longer able to maintain control of the business of Smurfit Kappa Carton de Venezuela (SKCV).

The Government of Venezuela

took control of SKCV's Valencia mill at the end of August with an occupation order, following which Smurfit Holdings confirmed that it was "impossible to manage its affairs in a way that complies with its normal business standards".

In a statement, Smurfit Kappa, which operates in 35 countries in the Americas and Europe, said that since the notification of the occupation order, it has been subject to government interference.

This included "the arbitrary

harassment of its employees by the Directorate General of Military Counterintelligence through unauthorised visits which have the effect of intimidating its workforce, resulting in increasing absenteeism". Furthermore, the government arbitrarily arrested two SKCV employees on charges of price speculation, boycotting, destabilising the economy and smuggling.

As a consequence of the loss of control over SKCV, Smurfit Kappa

said it would deconsolidate its Venezuelan operations during the third quarter of 2018.

Smurfit Kappa added that it would be writing down assets worth approximately €60 million. SKCV represented less than 1 per cent of Smurfit's EBITDA in the first six months of 2018.

Smurfit Kappa operates three paper mills in Venezuela, at Caracas, San Felipe and Valencia. Caracas and San Felipe also produce boxboard packaging, as does a site at Maracay.

Packaging M&A remains buoyant after record year

There were continued high levels of mergers and acquisitions in the packaging industry, with the top three cartonboard manufacturers reinforcing their leading positions, according to data published by Alantra, the global investment banking and asset management firm.

Some 183 transactions were completed in the first half of 2018, following a record year for deals in 2017.

Global growth provided the backdrop, says Alantra, while macro trends including the rise of on-the-go food packaging, sustainable packaging and online retail have offered businesses expansion and new market opportunities.

Mark Wilson, a partner in the UK advisory business of Alantra and a leading adviser to the packaging sector, said: "The high valuations paid by strategic buyers for market-leading assets will not abate any time soon. Vendors will, however, need to consider very carefully how they can maximise value from a sale process,

especially when their business spans diverse products, geographies and end markets. We are seeing an increasing trend whereby standalone divisions in multi-site groups are sold to completely different acquirers."

Commenting on the cartonboard business, Wilson said: "There has been substantial consolidation in the paper and board market in H1 2018, with the largest three players in Europe all reinforcing their market-leading positions.

"DS Smith acquired Europac in Spain for €1.7bn at a 10x EBITDA multiple, Smurfit Kappa acquired Reparencio in the Netherlands for €460m, and Saica acquired Emin Leydier in France.

"While European companies have historically struggled to win auction processes in the US, DS Smith successfully acquired Corrugated Container Corporation, a US recycled paper packaging manufacturer. US players are looking to Europe for expansion, with International Paper making an ultimately unsuccessful €8.6bn bid for Smurfit Kappa."

Sales up at Sappi but profits slip

Despite an increase in sales at South Africa's leading paper maker Sappi for the nine months ended in June of 9.9 per cent to US\$4.27 billion, compared with the same period a year earlier, net profit slipped from \$236m to \$216m.

For the quarter, sales were \$1.45bn, up by 14.6 per cent, with net profit also slightly down, from \$58m to \$51m.

Sappi has been increasing moving away from the production of printing and writing papers, towards pulp, and packaging papers.

Commenting on the results Sappi's chief executive Steve Binnie said: "Our third quarter operating performance was in line with previous guidance with earnings (EBITDA ex special items) flat at US\$155 million compared to a year ago.

"The third quarter is seasonally and historically our weakest quarter due to the slow-down in business activity during the Northern Hemisphere summer

holiday period and Sappi's choice to use this quarter to undertake major annual maintenance shuts.

A strong performance by our European operations was offset by a number of one-off operational and production issues in our South African and North American businesses.

"Capital expenditure increased due to the now completed paper machine conversion at Somerset Mill and the debottlenecking of dissolving wood pulp production at our Ngodwana and Saiccor mills. I am pleased that we have completed the conversion projects at Somerset and Maastricht mills and that we can look forward to significantly improved packaging sales volumes in the coming financial year."

At the Ngodwana mill, which suffered from a late start up the focus is on an evaporator upgrade to reach the planned capacity of 250,000 tons per year. At Saiccor, the mill is operating at its full capacity of 780,000 tons per year.

Why marketing automation is key for the future of pulp and paper

As the pulp and paper industry becomes increasingly competitive so the marketing and sales process of papermakers needs to be more effectively automated, says Nina Church-Adams*

In this increasingly digital world, there are those who predict that the pulp and paper industry is heading towards extinction. However, the opposite is in fact true. According to McKinsey, the paper and forest-products industry as a whole is growing, with packaging, tissue paper, and pulp for hygiene products thriving across the globe.

But this continued growth doesn't mean that the industry isn't facing major evolution. New technology and changing customer demands are creating shifts in pulp and paper products. To date, the industry

has coped well in adjusting to the new normal, but it's crucial that it continues to do so.

An aspect of this that needs to be kept in mind is the changing landscape when it comes to marketing and sales, and the opportunity to harness new technologies and approaches to save costs and increase return on investment (ROI). Marketing automation can help marketing and sales teams segment potential customers and send personalised communications to increase conversion rates.

Many manufacturing marketers

have traditionally focused on the number of leads as a key metric. It's easy to work under the theory that the more leads that flow into the top of the sales funnel, the more that will convert to a completed sale. However, more leads don't always produce more completed sales. A laser focus on lead velocity – that is, improving the conversion rate for leads as they move through the sales pipeline – translates into higher revenue returns while increasing the sales team's confidence.

When marketing focuses on volume, sales end up kissing a lot of frogs in the hope of finding

the hot leads included in the mix. While there is a finite number of customers in the market for a product at any given time, there comes a point of diminishing returns. When marketing sends sales to too many frogs, they risk losing the sales department's trust and with it, the value of any leads they pass on.

This is where centralised digital marketing engines, known as 'marketing automation platforms', can help – because the right digital marketing engine can dramatically improve the rate at which leads are converted. Here are four areas of



marketing automation that can help marketers maximise success:

Increase in lead generation ROI

Whether a direct lead, or a lead through the channel, manufacturing marketers today have to maximise their use of time and resources to prioritise prospective customer interest. Organisations that nurture leads benefit from an increase in lead-generation ROI. After all, the speed with which leads are converted to sales-qualified leads increases efficiency while ensuring that the sales team spends its time having high-quality conversations.

Segmentation, tailored content and lead nurturing

While more than half of all manufacturing marketers don't currently segment prospects at all, tailoring content to individual buyers increases lead conversion significantly. Speed-centric marketing encourages segmentation, nurturing each lead based on things like product interest,

position, industry, and more.

According to Wakefield Research, 77 per cent of manufacturing organisations conduct more than 10 promotions a year with 46 per cent running more than 21.

For example, with marketing automation, companies can deliver near real-time content to prospects, tailored to how those prospects like to engage with the business, and thus nurture them through the buying journey from initial engagement and quote request, to placing an order or setting up an account. These customers can then be further nurtured, adding new product lines to their account. With this approach, tailoring content to different prospects at different times in the buying process, many companies have increased conversion rates by as much as 1,000 per cent.

Increased sales efficiency increases sales impact

Even small, incremental increases in conversion rates can result in significant sales impact. When

marketers focus on lead volume, a huge amount of effort is wasted with clearly unqualified leads – effort that could be used on leads that have a higher likelihood of conversion and ROI. In addition, a bonus side effect to an increase in velocity is that sales can reinvest previously wasted effort in upsell and cross-sell activities, making them even more productive.

Sales marketing alignment

In order to affect positive change in conversion through the sales funnel, it's important for the sales and marketing teams to work together, and to make sure they have common definitions for the sales and marketing process. For example, both departments need to ensure that they agree on what counts as a lead, an MQL, SQL, Opportunity, etc. With these definitions in hand, they should then measure the lead conversion rate from each stage to the next. Key questions to ask are:

- What is the current speed of prospects in the pipeline?

• Are there any bottlenecks in the process?

• Which prospects move faster today and why?

The more effective the funnel, the more efficient it is at converting at all levels, which can have an important impact on the productivity of marketing and sales, and most importantly, on sales outcomes. Segmentation and personalised nurturing campaigns using marketing automation will speed up the rate of conversion velocity and increase the quality of leads that are sent to the sales organisation. This will in turn grow sales' productivity, help them win more customers and make more sales, and increase sales' confidence in the marketing process and the marketing team.

* Nina Church-Adams is senior VP of marketing at US-based Act-On where she manages the company's global marketing function, bringing more than 14 years of marketing leadership experience building teams, products, and brands at industry leading companies such as Nike and American Express.

INDUSTRY NEWS

Carton maker SIG uses 100 per cent renewables

As a septic carton manufacturer SIG claims that it is first in the industry to produce all of its packs using 100 per cent renewable energy.

Germany-based SIG says it is sourcing its electricity and gas from suppliers with renewable sources and by 'effectively eliminating' greenhouse gas emissions from its operations it has reached a milestone by contributing more to the environment than it takes out.

SIG reports that it has met its 2020 goal to source 100 per cent renewable energy and Gold Standard CO2 offset for all non-renewable energy at production

plants two years early. The switch to 100 per cent renewable electricity was made in 2017 and SIG is now sourcing renewable alternatives for the remaining energy used in production that comes from natural gas.

Biogas certificates purchased by SIG are certified to the recognised GoldPower standard to offset 100 per cent of the natural gas used at its production sites from January 2018.

Arnold Schuhwerk, SIG's global category manager for energy procurement, said: "We achieved a big milestone last year by securing 100 per cent renewable electricity for production. Sourcing

renewable alternatives for gas was even more challenging because the market for renewable biogas is not yet well established."

With no viable option to source renewable biogas directly, SIG is sourcing it indirectly instead by supporting projects to construct and operate waste-to-energy systems in China, Thailand and Turkey that capture gas generated at landfill sites and use it to produce renewable energy.

Landfill gas from decomposing waste includes large amounts of methane, a potent greenhouse gas. Preventing this gas from escaping into the atmosphere helps to avoid harmful climate

impacts, says SIG.

The projects are certified to the GoldPower standard, which verifies that they will not only deliver measurable greenhouse gas emission reductions, but also create benefits for local communities, such as air or water quality improvements or job opportunities.

"We are supporting projects that capture harmful greenhouse gases from landfill and convert these into energy," said Schuhwerk.

"We chose the projects because they are certified to a recognised standard to make sure they have a positive social impact as well as supporting environmental savings."

Reliable handling for paper applications

Kimberly-Clark's tissue mill at Niederbipp in Switzerland has been successfully using Yale trucks for handling its waste paper, pulp and finished products. PPL reports

From loose to packaged paper, recycled paper blocks and finished sheets, the paper industry is defined by the need to handle a variety of materials.

"Each stage of the product cycle can require a wide range of different materials handling solutions and specialist equipment," says David Reeve, paper industry manager for Yale.

Designing trucks that offer operational optimisation at each stage of the paper production cycle doesn't happen by accident. A deep understanding and first-hand experience of the challenges faced within the industry has helped Yale develop equipment that can step up to this.

"The harsh operating conditions

of the paper industry create their own unique challenges," says Reeve. "With specially-designed features and equipment, Yale customers can continue to maintain high productivity without compromising on truck performance. For example, dust, dirt and paper particles blocking the radiator can potentially lead to an overheating engine or worse; cooling of the truck is paramount. Automatic flushing of debris from the engine compartment, reversing fans, load-sensing hydraulic pumps, and Combi-cooler radiators are just some adaptations used to overcome these challenges."

Quality, size, weight, and width are variables that are important to take into consideration in the handling of various paper types. "Versatility in the handling of paper is incredibly important," says Reeve. "This is why options have been developed that can be tailored for the application at hand. Bale and tissue roll clamps, rotating paper roll clamps and multi-pallet handlers can all support secure paper handling.

"Of course, having suitable industry solutions is just one part of the challenge. The other is ensuring that the solutions we offer meet the specific needs of our customers; this is where our

extensive dealer network comes in. It is through our dealers that we are able to really understand our clients' needs. Their expertise and support is crucial in helping us provide equipment best suited to the individual application. One such example of this is the service provided to Yale customer Kimberly-Clark at Niederbipp."

Heat, humidity, dust, abrasion – producing soft, hygienic paper is tough business and having equipment that can perform continuously in this environment is crucial to maintaining productivity. The Kimberly-Clark tissue mill in Switzerland exclusively trusts trucks supplied by Yale dealer, Avesco. From heavy-duty forklifts to platform pallet trucks, the Yale equipment onsite operates round-

the-clock and continues to impress with its ergonomics and reliability.

Andreas Nussbaum, facility manager at Niederbipp, has seen many different materials handling providers come and go. Almost every brand has attempted at some time to prove their worth in the Swiss paper factory. For six years, the producer of Kleenex and Hakle hygiene products has used only Yale trucks. In Nussbaum's opinion, that's how it should stay, because he and the other 47 drivers appreciate the equipment's durability. "The trucks are robust and there is very little damage – that's great for our operations here," says Nussbaum.

Kimberly-Clark is the world leader in hygienic papers with 42,000 employees in 175 countries



and brands like Huggies and Kleenex. At its plant in Niederbipp, in the canton of Bern, 320 Kimberly-Clark staff make products primarily for the local market. Paper production is not child's play: it's hot, it's humid, there's dust everywhere and continues 24-hours a day.

"Our work environment places very high demands on the vehicles in our factory," says Nussbaum. At the same time, it is necessary to move large quantities: the paper machines have an almost insatiable appetite for waste paper and pulp, the two key raw materials in papermaking.

Kimberly-Clark's fleet of 23 Yale trucks work accordingly hard: six diesel-engine forklifts, from the GDP35VX to the GDP60VX, operate in the outside yard keeping the raw materials flowing, and five electric trucks focus on logistics in the warehouses. They have impressively long service lives, with the ERP16/18 VF series trucks clocking up more than 8,000 hours in five years onsite and one GDP35VX registering 14,750 hours in just 65 months. "The trucks are used intensively, also in terms of operating hours," says Nussbaum.

In 2012 Kimberly-Clark switched to Yale from a German truck manufacturer. The Swiss Yale dealer Avesco was already known to Kimberly-Clark because it had previously provided wheel loaders for the raw-material supply chain.

Nussbaum recalls how Avesco

put together the right overall package: in addition to reliable and ergonomic trucks from Yale, the deal also included a long-term five-year rental contract with the option of replacement vehicles after that period. Avesco gave Kimberly-Clark a service level commitment which, according to Nussbaum, the dealer has honoured to the letter. Service technicians are available at short notice and replacement trucks are usually provided the same day.

Senior management at Kimberly-Clark appreciated how Avesco and Yale were able to tailor the equipment to their specific requirements. For example, the exhaust after-treatment systems on the diesel trucks have been fitted with a heat protection foil to avert fire hazards and hydraulics and water cooling systems have extra coolers to cope with the heavy-duty operation. Two electric forklifts are fitted with bale clamps and one heavy-duty forklift even has shears to cut the wire on waste paper bales. "Not possible' is not part of the dealer's

vocabulary, which we think is very good," states Nussbaum.

He also appreciates being able to speak honestly and openly with Avesco. "You can state your opinion and don't need to beat about the bush," says Nussbaum. That applies on the one hand to Kimberly-Clark, which can raise any maintenance requirements but it is also true for Avesco, which can alert Kimberly-Clark to schedule the next driver-training course.

The supplier and the client sit down together twice a year and talk about hours worked, damage, terms and conditions. Another positive for Kimberly-Clark is the single point of contact Avesco provides: someone who started their career as a mechanic and knows the business inside out.

The operators at Kimberly-Clark also sing the Yale equipment's praises. René Känzig has been driving trucks at Kimberly-Clark since 1989. One thing he likes in particular is that he can control all of the truck's functions using just his right hand with the Yale AccuTouch mini-lever. The air-sprung seat enhances his comfort, especially over long working hours, and air conditioning means he can shut the windows of the cab. Last but not least, having a radio makes work for him and his colleagues that little bit easier.

More information from www.yale.com



Saica Paper renews its shipping contract in UK



Saica Paper has renewed its UK contract with logistics operator CM Downton for a second time following a competitive tender in a deal worth more than £4 million a year.

The two companies have worked together since Saica Paper opened its new paper mill at Partington, Manchester in 2012.

The contract covers the inbound transportation of full loads of

recovered paper collected from various UK recycling sources into Saica Paper's mill, and the outbound delivery of full loads of paper reels to customers throughout the country.

Downton has undertaken

significant continuous improvement work with Saica Paper in the past year. This has included work on trailer design to reduce the number of claims resulting from wet or damaged paper reels.

Logistics center Port of Trelleborg



The terminal handles approximately 150,000 tonnes per year!

The cargo is essentially forest products as paper and sawn wood, and also steel and general cargo.

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Moving to a higher level of tissue making

To qualify for the ultra-premium bath tissue and paper towel market, Orchids Paper equipped its greenfield plant on the east coast of the US with an Advantage QRT tissue line – technology that is new to the market. Katarina Åhsberg reports

Orchids Paper, a US-based manufacturer of branded and private-label tissue products, set a target to be a national supplier of paper towel, bath tissue and napkins and qualify for tissue products in the

near ultra-premium segment. A significant part of its strategy was a new mill built on a greenfield site at Barnwell in South Carolina, equipped with a

new Advantage QRT line supplied by Valmet with capacity to produce 35,000 tons of premium tissue a year. Having a tissue line that enables sustainable and

cost-efficient production of bath and towel tissue helped Orchids to land a contract with a major customer. The planning of a new facility

includes hundreds of different decision points. To have a smooth-running project, Orchids Paper decided to go with one main supplier for the complete package, which included mill engineering, stock preparation, automation and the tissue

machine, as well as training, start-up and commissioning. "It was very important for us to have a supplier capable of turnkey projects. In my view, Valmet is clearly the world leader in terms of design and execution. They pay attention to the details,

are proud of what they do, and care about the well-being of our company," says Jeffrey Schoen, chief executive of Orchids Paper.

A new technology for tissue making

As Advantage QRT technology was new to the market, pilot trials in Valmet's Tissue Technology Center in Sweden played a major role in Orchids Paper's decision.

"The pilot trial was important in demonstrating that we could make towel and bath tissue from recycled fibre. We tested different products and furnish with up to 100 per cent recycled fibre, and it convinced us that it was the machine we needed," explains Eric Diring, vice president of operations at Orchids Paper.

The new machine is an integral part of Orchids' strategy to penetrate the ultra-premium bath tissue and paper towel market. "One of the reasons for buying a QRT line was its low operating cost relative to other related tissue processes. In private label production, it is very important to be viewed as a low-cost producer, so this is a competitive advantage," Diring says.

Outstanding start

The start-up of the new tissue line went very well, and the machine produced sellable paper from the first roll. The high tissue quality was the reason why Orchids Paper qualified to deliver bath products to Sam's Club only two weeks after starting the machine. Sam's Club is an American membership-only retail warehouse club owned and operated by Walmart, and named after Walmart's founder, Sam Walton.

Building on that success, Orchids qualified for kitchen towel in August 2017 and started shipping in December. Today, Orchids is



Jeffrey Schoen, chief executive of Orchids Paper



Brian Merryman, site manager at Orchids Paper



Eric Diring, vice president of operations at Orchids Paper

delivering ultra-premium bath tissue and kitchen towel products to customers in the warehouse club, dollar store, and grocery store channels, and it expects to add more.

"What impressed me most with the QRT machine is the quality of

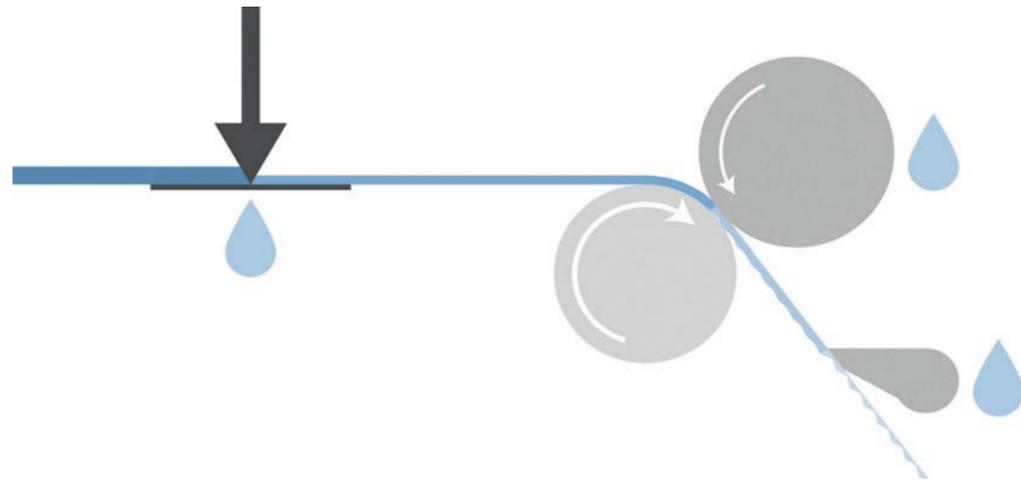
The Advantage QRT line in Barnwell has capacity to produce 5 to 6 million case units with 35,000 to 38,000 tonnes of tissue

the paper. It has helped us sell to new ultra-premium customers in a tough market. The machine has delivered the quality I expected and continues to improve as we continue to maximize its capabilities," Diring says.

"The support from Valmet was outstanding. Their dedication and focus to get the paper machine started up on time was impressive. Even when we had issues, everybody was quick to rally around and solve the problem. All worked with the same dedication, and you couldn't tell the difference between the mill team and the Valmet team except by the green shirts," says Brian Merryman, site manager at Orchids Paper.

"It's unique; it's different"

"Absorbent rate is a key selling point and differentiator for tissue products. This product has higher stretch, and the absorbency is great. The machine makes exactly what we were told it would. It's unique; it's different. There are qualities that are superior to anything out there. We are



With Valmet's new tissue making concept, it is possible to achieve premium and ultra-premium quality utilizing pressing in combination with Rush Transfer. This means significantly lower energy consumption compared to other structured tissue processes

constantly learning and making things better," Merryman says.

"It also makes life in converting much easier. We get the caliper without too much embossing. The big difference with the QRT machine is that the more you rush to get the caliper, the more stretch you get in the product."

Also using recycled fibre

The QRT line is handling recycled fibres very well. Orchid Paper's

target is to use 25 per cent broke – the cleanest fibres, coming directly for the converting lines. But they also want to produce tissue with other types of recycled fibres. A de-inking line allows them to run premium and ultra-premium products using a range of fibre streams and not just virgin fibre. The optimisation of the de-inking line is still ongoing, which includes running in continuous mode. However, once the recycled fibres get into the machine, the team at Barnwell says it runs "fantastically".

The team is convinced that QRT is the technology of the future: a new way to help people get access to better paper products at a reasonable cost.

In summary, Schoen says: "We have achieved the goals we set before start-up, and we are looking forward to future achievements and learnings

About Orchids Paper

Orchids Paper supplies range of consumer paper products to customers in the US from facilities at Pryor in Oklahoma and Barnwell in South Carolina and through a partnership with Fabrica de Papel San Francisco in Mexico.

Parent rolls in its Pryor paper mill, which has capacity for 74,000 tons of paper per year, are converted into finished tissue products at converting facilities at Pryor and Barnwell, which contain 14 lines. Total net sales in 2017 were US\$162 million.

structured processes with through-air drying," explains Hans Ivarsson, project manager at Valmet R&D (pictured).



Premium products at a reasonable cost

"Normally, the recipe to reach the highest bulk and absorbency is to avoid pressing and to use hot air through the web for drying. However, Advantage QRT uses a combination of wet pressing, a structured fabric and Rush Transfer to achieve premium and high-premium products with high bulk and absorbency. The process uses a significantly lower amount of energy than comparable

Scope of Valmet's delivery

- Mill engineering
- Advantage QRT tissue line
- Valmet DNA automation system with quality control system
- Stock-preparation system including de-inking line
- Training, start-up and commissioning

from QRT. We have met the expectations we had: to become a national player, to supply a larger percentage of our business in the premium and ultra-premium product segments, and to be a low-cost producer. QRT technology positions us well to increase our market share and achieve our long-term goals."

The world of tissue meets at Lucca

More than 6,000 visitors from the global paper and tissue industries are expected to attend the 25th MIAC show at Lucca in Italy from 10-12 October.

They will be meeting 270 exhibitors to learn about the latest technologies, equipment and services for the production of paper, cartonboard and converting tissue.

Lucca is recognised as the 'paper district' of Italy and boasts many of the largest paper makers and their suppliers in the industry. There are more than 140 mills and converters in the region, with 6,500 employees producing two million tons of paper and cartonboard worth around €3.5 billion. Lucca is also home to major companies that supply technologies, machinery and services to the paper industry sector, with 8,000 employees and sales of €2.6 billion.

Lucca is part of a strong paper industry in Italy which has 165 mills and 20,000 employees making nine million tons of paper and board worth €6.8 billion, making the country one of the four largest markets in Europe.

The MIAC show has exhibitors covering all sectors of the paper, cartonboard and tissue industry, in product and service categories such as:

- Machinery and plant for the production of paper and board
- Components and parts of paper machines
- Converting machines for tissue
- Instruments and systems for measurement, test, control and management
- Machinery and plant for water treatment

MIAC
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2018

- Plant, machinery and electrical controls
- Raw materials, chemicals and additives
- Machinery and plant for drying, filtration and energy recovery
- Laboratory, diagnostics, logistics, services and plant optimisation

How to get to MIAC

MIAC is being held at the Lucca Fiere Exhibition Centre, Via della Chiesa XXXII 237, 55100 Lucca, Italy, but if you are driving there remember that the free parking is at Via Vitriccia, Lucca.

The MIAC Conferences

During the three days of MIAC there will be a number of international conferences dedicated to the paper and tissue sector. Participation is free of charge and simultaneous translation is available. All will be held in the MIAC 2018 Conference Room

MIAC Tissue Conference First session: 10 October, from 13.40 to 17.05

Toward the Tissue Paper Mill 4.0
In an increasingly competitive international environment, tissue products have to be produced with increasing efficiency, and in response to market demand and changing consumer needs. Moving in parallel with the production line, both of the paper mill and of the converting, the industry faces a number of critical points



of the process requiring the best available technologies to increase performance, quality and process management.

Second session: 11 October, from 09.40 to 12.50 Toward the Tissue Converting Plant 4.0

In an increasingly competitive international environment, tissue products have to be produced more efficiently, promptly responding to market demands and new consumer needs.

MIAC Energy – Assocarta Conference 11 October from 14.00 to 16.45 Fossil versus Renewable energy: which will be the mix for the paper mill of the Future?

The challenging targets in the fight against climate change have led the European pulp and paper industry to study, with the Roadmap 2050, how to achieve them. New energy efficiency measures and technologies need to be introduced in the paper mills, but all this will not be enough if not supported by an overall decarbonised national context.

During the conference, the

most interesting energy efficiency measures will be addressed, as well as the role of renewable energy sources in the reduction of direct and indirect emissions of the paper sector.

MIAC Recycling – Comieco Conference 12 October, from 09.30 to 12.30 Circular economy and environmental measures for quality: the case of paper to be recycled

The Chinese government's measures against pollution have sharply reduced the value of paper to be recycled around the world. China cannot satisfy the demand for paper and packaging production despite the very high prices at which Chinese paper mills purchase local separate collection of paper.

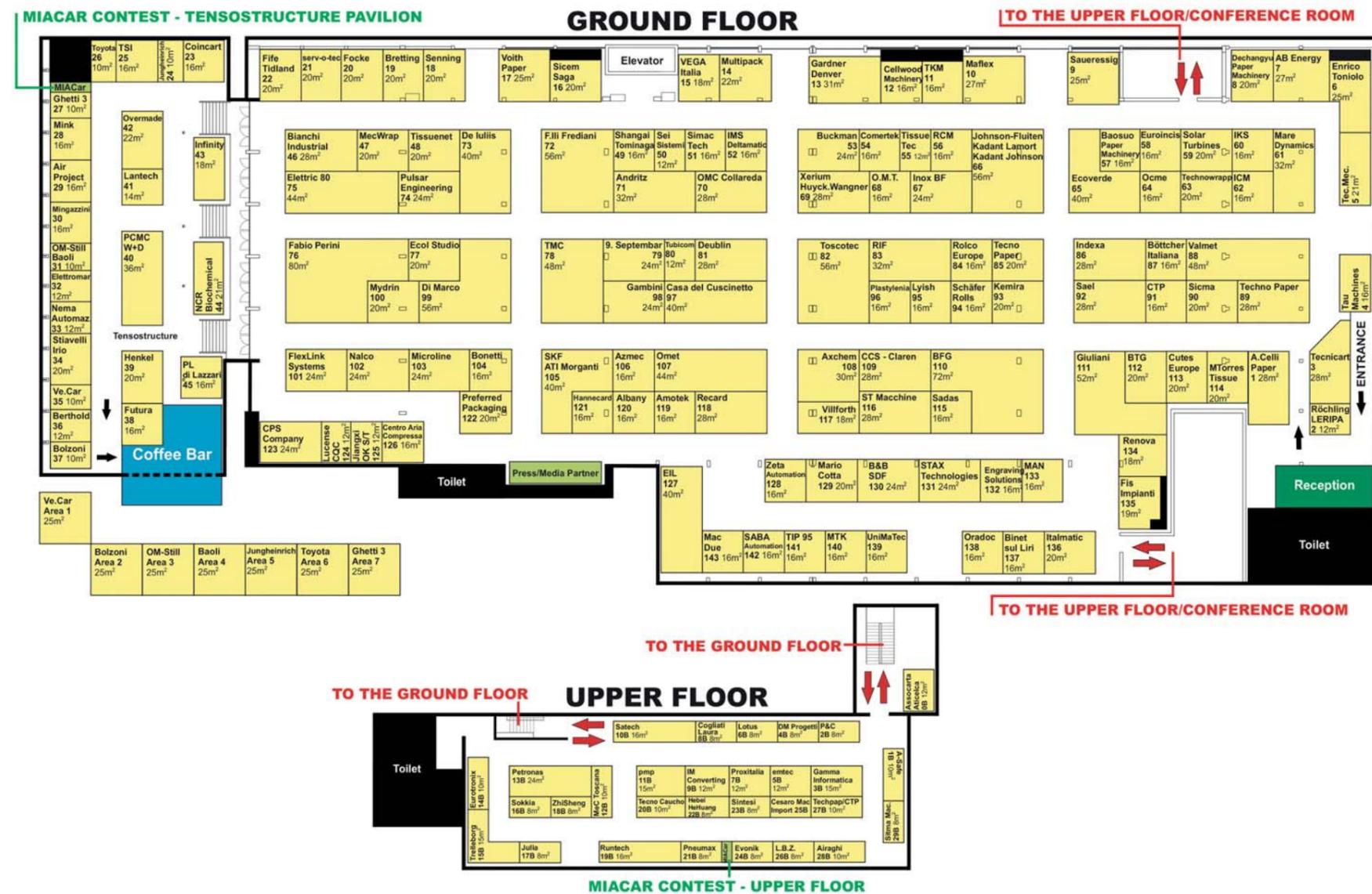
Only a particularly favourable phase in the domestic and European demand for raw materials for packaging and the consortium guarantee systems operating in Italy seem to have stopped separate collection at a time when Italy and Europe are following the circular economy measures and set higher goals for separate collection and recycling. ▶

Exhibiting company	stand no	CUTES EUROPE LTD.	113	KEMIRA OYJ	93
A-SAFE ITALIA SRL	1B	D.M. PROGETTI SRL	4B	L.B.Z. LAVORAZIONI MECCANICHE SRL	26B
A.CELLI PAPER S.P.A	1	DE IULIIS CARLO & ALFONSO SPA	73	LANTECH	41
A.T.I. DI MORGANTI SRL	na	DEUBLIN ITALIANA SRL	81	LOTUS ALUTECH	6B
AB ENERGY SPA	7	DI MARCO SPA	99	LYISH ENGINEERING LTD	95
AIKAWA FIBER TECHNOLOGIES	89	DM PACK SRL	122	MACDUE	143
AIR PROJECT SRL	29	ECOL STUDIO SPA	77	MAFLEX SRL	10
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ALBANY INTERNATIONAL	120	EIL SRL	127	MARE DYNAMICS	61
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AMOTEK SALES & SERVICE SRL	119	ELETTROMAR SPA	32	MEC TOSCANA SRL	12B
AMS - ASSET MANAGEMENT SERVICE srl	78	EMTEC ELECTRONIC GMBH	5B	MECWRAP SRL	47
ANDRITZ	71	ENGRAVING SOLUTIONS SRL	132	MICROLINE SRL	103
ANGST + PFISTER spa	97	EUROINCIS SRL	58	MINGAZZINI SRL	30
ARCHOMA ITALY	110	EUROTRONIX SRL	14B	MINK ITALIA SRL	28
ASSOCARTA	0B	EVONIK	24B	MTK SRL DEWATERING SYSTEM	140
ATI DI MORGANTI SRL	105	F.LLI FREDIANI SRL	72	MOTORRES TISSUE SRL	114
AXCHEM ITALIA SRL	108	FABIO PERINI	76	MULTIPACK SRL	14
AZMEC SRL	106	FIFE-TIDLAND GMBH	22	MYDRIN SRL	100
OFFICINE AIRAGHI SRL	28B	FIS IMPIANTI SRL	135	N.C.R. BIOCHEMICAL SPA	44
B.F.G. RAPPRESENTANZE INDUSTRIALI SRL	110	FLEXLINK	101	NALCO ITALIANA SRL	102
B&B VERPACKUNGSTECHNIK GMBH	130	FOCKE & CO	20	NEMA AUTOMAZIONE SRL	33
BAOSUO MACHINERY & ALVAREZ T.M.E57	13	FUTURA S.P.A.	38	O.M.C. COLLAREDA SRL	70
BERTHOLD ITALIA SRL	36	GAMBINI SPA	98	O.M.T. SRL	68
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BOLZONI ITALIA SRL	37	GHETTI 3 SPA	27	OMET SRL	107
BONETTI SPA	104	GIULIANI SRL	111	ORADOC SRL	138
BÖTTCHER ITALIANA SPA	87	HANNECARD PAPER	121	OT LUCCA SRL	107
BTG	112	HEBEI HEHUANG PAPER MACHINE	45	OVERMADE SRL	42
BUCKMAN	53	CLOTHING	22B	P.L. DI LAZZARI SRL	45
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CASA DEL CUSCINETTO SPA	97	HONDA	112	PCMC ITALIA SPA	40
CCS - CLAREN SRL	109	ICM MAKINA LTD	62	PETRONAS LUBRICANTS ITALY SPA	13B
CELLWOOD MACHINERY AB	12	IKS	60	PLASTYLENIA SPA	96
CENTRO ARIA COMPRESSA SRL	126	IM CONVERTING SRL	9B	PMP - PAPER MACHINERY PRODUCER	11B
CENTRO QUALITÀ CARTA - LUCENSE	124	IMS TECHNOLOGIES SPA	52	PNEUMAX SPA	21B
CLUB TECNOLOGIA E PASSIONE	74B	INDEXA COMPANY	86	PROXITALIA PRODOTTI CHIMICI SRL	7B
COGLIATI LAURA	8B	INFINITY ITALIA SRL	43	PULSAR ENGINEERING SRL	74
COINCART SRL	23	INOX B.F. SRL	67	RCM REVISIONE COSTRUZIONE	56
COMERTEK SRL	54	INTERNATIONAL KNIFE & SAW	60	MACCHINE SRL	56
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				RIF SPA - RIF ROLL COVER SRL	83
				RÖCHLING LERIPA PAPERTECH GMBH & CO KG	2
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				SPEZIALMASCHINEN GMBH	130
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SADAS SRL	115	SICMA SPA	90	TISSUENET GMBH	48	VEOLIA WATER TECHNOLOGIES ITALIA SPA	na
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SATECH SAFETY TECHNOLOGY	10B	SIMAC TECH SRL	51	TAU MACHINE SRL	4	VOITH PAPER GMBH & CO. KG	17
SAUERESSIG GMBH + CO. KG	9	SINTESI IMPIANTI SRL	23B	TEC.MEC. SRL	5	WEFAPRESS BECK & CO	89
SCHÄFERROLLS GMBH & CO. KG	94	SITMA MACHINERY SPA	29B	TECHNIDYNE	27B	WEINGRILL SRL	95
SDF SCHNITT-DRUCK-FALZ	9	SKF INDUSTRIE SPA	105	TECHNO PAPER SRL	85	WINKLER+DUNNEBIER	40
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Environmental mission

Leipa, located at Schwedt an der Oder in the German state of Brandenburg,

is continuing a mission for environmental protection: each individual process step in the production lines must make a

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In Germany, paper maker Leipa has been reducing its energy consumption as part of a rebuild of its screening plants. PPL reports

positive contribution at the mill. Andritz took this mission on board during the rebuild of the screening plant in DIP1.

Sebastian Stockfisch – head of the two deinking plants and the effluent treatment system for Leipa Georg Leinfelder GmbH at

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the Schwedt mill – speaks frankly about the mill's original screening plant in DIP1.

"We needed a separate machine operator just for this tailing screen to move and re-adjust the levers again and again in order to avoid excessive losses," says Stockfisch.

Leipa had tried for some time to find a solution to continuing problems in its screening plant – above all the strikingly high fibre losses – and to determine the right settings for the tailing screen.

It was clear to Leipa that a rebuild of the DIP1 coarse and fine screening plants was needed to reduce pulp losses and improve pulp quality, and that energy savings would also have to be one of the targets.

"We had to make the project pay for itself as well, and that is not possible simply by increasing the yield," Stockfisch explains.

Building on an existing track record

Leipa at Schwedt already had a successful track record in rebuild projects with Andritz with a DIP1 screw press project in 2013, which then halved the energy consumption of the unit.

In the case of the screening plant rebuild, Andritz suggested a consistent technological solution to Leipa. In addition to replacing the inadequate tailing screen with a new ModuScreen T4C, the two screens in the first and second stages of preliminary screening were to be fitted with the latest slotted screen baskets and rotors from Andritz.

Also added to the scope of supply were a new standpipe and a feed pump to the final stage as well as a new AhlCleaner RB300HD4 high-consistency cleaner to protect the new

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screen. In the fine screening sector, a new ModuScreen A44 was planned as the first stage, while existing screens would be used in the second, third, and fourth screening stages – stage three preceded by an HD-cleaner from the existing equipment. All screens were also to receive new screen baskets and rotors from Andritz.

The turnkey supply agreed with Andritz included detailed engineering, all drive motors, complete instrumentation, piping and supports required for the rebuild, electrical installation work including adjustments to the DCS and MCC, complete installation work (mechanical, electrical, pipework, and machinery), as well as start-up with trial operation and training.

"Leipa ordered an all-round package with Andritz as general

contractor," Andritz project manager Markus Mairitsch explains.

Mission accomplished

Start-up was at the beginning of October 2014 and the result was impressive. The agreed reduction in weight losses to a maximum of 7 kg/min otro was achieved quickly, as was the guaranteed capacity and the increase in capture rate for stickies.

The new ModuScreen T4C screen from Andritz played a central role in the rebuild of the preliminary screening plant. This special, two-stage tailing screen operates with centripetal force in the lower area with a rotating screen basket perforation diameter of 2.0 mm and with centrifugal force in the top section under atmospheric pressure with a screen basket



"This optimisation demonstrated that changes to individual units or sub-systems influence the ecological footprint of the entire company," says Sebastian Stockfisch, head of deinking and effluent treatment at Leipa

hole diameter of 2.2 mm. It is not sensitive to spinning and keeps the fibre content in the reject to

a minimum. With good screening efficiency, the reject leaves the screen with a high dryness of

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approximately 20 per cent.

The new Andritz ModuScreen A44 in the fine screening plant has achieved excellent screening as a result of the special screen basket/rotor concept. The new Bar-Tec rejector screen baskets used in coarse screening (slot width 0.4 mm) with patented bar profile achieve better removal of impurities compared to the perforated screen baskets used so far and feature low energy consumption.

In order to secure the energy savings of more than 20 per cent as agreed in the contract, a few optimisations were needed first, but were completed quickly.

“There are always small snags in any project. But everything was resolved very well overall,” says Leipa project manager Gerhard Laue, confirming the satisfactory completion of the project.

“At last, we no longer have to think about screening any more after this rebuild – that is certainly the biggest compliment for Andritz as supplier.

“Just like the screw press rebuild in 2013, this optimisation demonstrated that changes to individual units or sub-systems influence the ecological footprint of the entire company,” adds Stockfish.

About Leipa Georg Leinfelder GmbH

Although Leipa’s history dates back to 1847 when Michael Leinfelder bought a mill from Anton Lutz, its first paper machine didn’t start production until 1869. Now it has four sites, with two paper mills at Schwedt – one ‘South’ producing magazine papers and liners, the other ‘North’ making liner – a flexible packaging plant at Schrobenhausen, and a flexible packaging units at Bukarest in Romania.



Sebastian Stockfish, head of deinking and effluent treatment at Leipa (right), and Markus Mairitsch, Andritz project manager, with the new ModuScreen T4C tailing screen

With 1,700 employees Leipa Georg Leinfelder GmbH has sales of €565 million a year, producing 530,000t of magazine papers, 700,000t of liner, 125,000t of board, 21,000t of special papers and 400 million square metres of flexible packaging.

Leipa’s most recent investment was in the restarting of its PM5 machine in April 2018 after it was

converted to uncoated White Top Testliner.

Commenting on the project, Leipa group chief executive Peter Probst said: “We look forward to growing successfully with our customers and partners. The demand for White Top Liner remains consistently high and the trend is rising. Prices are at a high level as well. These factors

result in excellent conditions for the market launch of the PM5.”

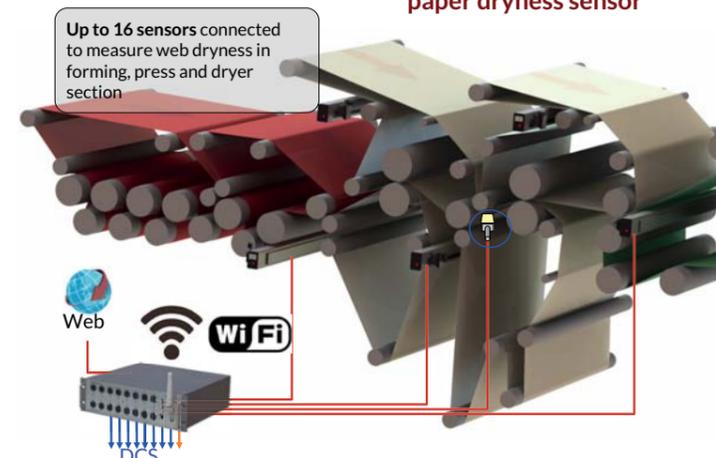
Christian Schürmann, operations chief at Georg Leinfelder GmbH added: “The entire project team has done a great job rebuilding the PM5. We will produce a state-of-the-art testliner on this machine – the world’s most powerful of its kind.”

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The next-generation bioproducts mill

At Metsä Group's new bioproduct mill in Finland, pulp production has been taken to a new level because every single item of the wood raw material and production side streams are utilised to achieve the highest material and energy efficiency. Antti Ratia reports

Äänekoski, a town of 19,000 people surrounded by lakes and vast softwood forests in Central Finland, is home to Northern Europe's largest bioproducts mill. In April 2015, Metsä Group, a forest industry group focusing on tissue and cooking papers, paperboard, pulp and wood products, replaced its old pulp

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mill in the town with a modern, next-generation bioproducts mill.

At €1.2 billion (US\$1.4bn), Metsä Group's investment in Äänekoski is the largest in the history of Finland's forest industry.

Having started production in 1985 the old pulp mill was approaching the end of its operating life cycle. A decision needed to be made – total

renovation of the existing mill or the construction of a new one.

The decision was for a new mill, and work started in August 2015, with Valmet being chosen to supply some of the key technology islands.

Metsä Group went through a traditional tendering process for the various key technologies at the mill.

Timo Merikallio, project director at Metsä Group, comments on the process: "We have a long history of co-operating with Valmet at our pulp mills in Finland. Valmet has been a good and innovative partner for us. Valmet stood out from the competition by offering us the best technology within our budget, so it was a natural choice to partner with them

when building the world-class bioproduct mill in Äänekoski."

The latest technology plays a key role

Metsä Group's decision to choose suppliers for the mill's key technologies was a 'deal for two'. Valmet was chosen to deliver the recovery boiler, pulp drying line, gasification plant, lime kiln,

sulphuric acid plant, and mill-wide automation system – all of it the latest technology and highly energy-efficient.

The gasification plant produces biogas from bark, which replaces fossil fuels in the lime kiln. The pulp drying machine includes several new features that improve efficiency and usability. The largest part of the delivery was the

recovery boiler with new high-power features. The boiler has a capacity of 7,200 t/ds and has an electricity capacity of 250 MW. As a result, the mill is capable of producing up to 1.4 times more electricity than it needs.

"The mill is a prime example of a contemporary bioproduct mill," says Bertel Karlstedt, president of energy and pulp business

at Valmet. "In addition to high quality northern softwood and hardwood pulp, it produces other bioproducts. Also, it doesn't use any fossil fuels and it supplements Finland's total share of renewable energy by more than two percentage points."

Mutual trust brings success

Metsä Group and Valmet agreed that the technology deliveries would be made using a tailored open book working model. It meant that for practical purposes Valmet and Metsä Group sat on the same side of the table. Metsä Group bought the equipment and made subcontracting agreements, and Valmet steered and managed the operations at the site.

"The project was the largest I have ever headed," says Merikallio. "It was big, international and divided into hundreds of smaller contractor agreements. Our co-operation with the open book project model worked well. Valmet's ability to meet our requirements during the project was on a good level."

Jari-Pekka Johansson, Valmet's Äänekoski project director adds: "Mutual understanding and joint project goals are essential. Metsä Group had really experienced project personnel. Even though we had some challenges during the project, at no point did they question our ability to solve them within the given schedule. Trust on both sides is crucial to achieve our common goals."

Dedication to safety

The total number of construction and project personnel at the site peaked at 13,500 during the project. Metsä Group had set high safety standards already in the bidding process.

Camilla Wikström, who was the mill manager at the time

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“The bioproduct mill doesn’t use any fossil fuels and it supplements Finland’s total share of renewable energy by more than two percentage points,” says Bertel Karlstedt, president of energy and pulp business at Valmet

of construction and has been recently appointed to SVP of production for pulp business at Metsä Fibre, says: “Valmet’s commitment to safety was noticed at an early stage. It showed also during the project through the resources Valmet appointed to the site. The accidents during the project were typically slips and

trips. Our lost time accident rate was below 14 per million working hours, which can be categorised as a good result in a project like Äänekoski.”

Merikallio adds: “Safety was well managed and resources were well placed. For example, at the very demanding recovery and boiler construction site with



“The project was big, international and divided into hundreds of smaller contractor agreements. Our co-operation with Valmet with the open book project model worked well,” says Timo Merikallio from Metsä Group

a lot of contractors, Valmet managed to work without any serious injuries. The attitude towards safety issues is the most important thing. With the right attitude, most accidents can be prevented, and Valmet demonstrated their ability to steer and handle health, safety and environmental issues well.”

Optimising performance with Valmet’s automation

Metsä Group chose Valmet to deliver the key process technology and the mill-wide process automation system and related analysers. The Valmet DNA automation system is the backbone of the entire mill and includes a secure back-up system



The Äänekoski mill uses a comprehensive automation system with Valmet DNA and analysers

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for mill operations. Valmet also supplied a comprehensive information management solution that provides real-time data for maintenance and quality control.

Tuomo Marjomaa, senior project manager at Valmet says: “The mill is equipped with 1,500 sensors that measure bearing vibration. Our automation service agreement provides weekly status reports for Metsä Group’s maintenance personnel. This enables repairs and replacements before any breakdowns occur. Äänekoski mill also uses maintenance pads for easy access to information and reporting on the shop floor.”

Start-up right on time

In August 2017, the Äänekoski bioproduct mill was started up a couple of minutes before the schedule that was planned two years earlier. The mill produces 1.3 million tonnes of pulp per year, along with other bioproducts such



“Valmet’s commitment to safety showed during the project through the resources Valmet appointed to the site. Our lost time accident rate was below 14 per million working hours, which can be categorised as a good result in a project like Äänekoski,” says Camilla Wikström from Metsä Fibre

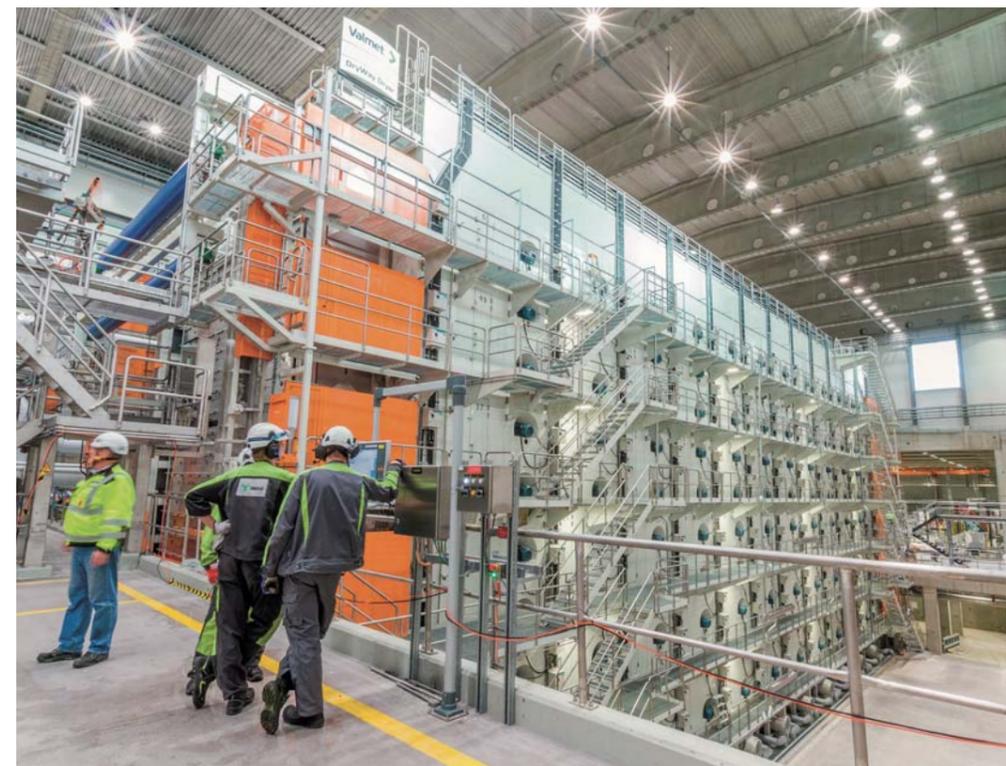
as tall oil and turpentine.

Jari-Pekka Johansson sums by saying: “I think success in this project was a result of good time management, the open book working model, our decision-making culture and interaction between people.”

Timo Merikallio adds: “Projects like ours always include unexpected issues and challenges. We also had some, but the way Valmet handled

them only increased my trust in them. I feel very positive as the mill has performed well and the ramp-up is nearly completed.

“Building these kinds of mills is always a different combination of technologies, and there isn’t only one way of doing it. I enjoyed working with Valmet; their professionalism and well-managed sourcing organization impressed me.”



The high level of automation in the drying machine allows the operators to start the machine hands free, providing safe and reliable operation

New solutions for making sulphuric acid

Metsä Group contacted Valmet to develop a way of making sulphuric acid from the mill’s own chemical circulation to increase its self-sufficiency.

“The sulphuric acid plant producing process chemicals from sulphur compounds in the odorous gases is a remarkable step towards closed chemical circulation and further improves the environmental performance of the bioproduct mill,” says Timo Merikallio, project director at Metsä Group.

This project is an example of how Valmet is able to develop new innovative technology to meet customer needs.

Eevi Smolander, manager for Valmet’s mill-wide NCG solutions, says: “We had not done any internal R&D before we got the first query from Metsä Group. I am proud to say that we developed the solution literally from scratch and were able to deliver new technology within the normal project schedule.”

In normal closed chemical circulation, the odorous gases are burned and recycled. Valmet delivered a technological solution that processes the odorous gases into sulphuric acid. The main challenge was to find the correct materials that are in contact with the 60-70 per cent strong acid. Usually, sulphuric acid plants manufacture close to 100 per cent strong acid, which is easier to handle and transport.

The sulphuric acid plant works in conjunction with the odorous gas burner and can be run separately or simultaneously with the gas burner.

Merikallio concludes: “So far the performance has been good. The technology works. The eye is now on the durability of the materials that are in contact with the sulphuric acid.”

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Videowall technology for pulp mills

Monitoring wood yard and fibrelines operations at pulp mills has become a lot smarter with Andritz Decision Support Walls. PPL reports

In all aspects of our lives, we are becoming much more accustomed to information being delivered on demand and with as much choice of visual effects and data display as possible. Information is king, and the clearer, more concise, and effectively illustrated the better, as it all goes to helping us manage our time more efficiently.

The Andritz Decision Support Wall (DSW) brings the latest in 'industrial internet of things' and smart technology right into the heart of the pulp mill control room for monitoring wood yard and fibrelines operations.

The DSW comprises a bank of screens delivering high-definition (HD) quality live videos from

processes and equipment, which can also provide live data recording and reporting facilities together with advanced alarm triggering, instantly highlighting any problems or potential problems.

The Traffic Light system

Along with the DSW, Andritz is introducing a process diagnostics display with key performance indicator values where process status is illustrated with colours and values that are controlled by the Metris tool rule base. The Traffic Light system is a new addition to help monitor and maintain the efficient running of the wood yard. When a green light is being displayed on the

system, all is running well; when a yellow light appears, it means the operator needs to do something: for example, when monitoring the condition of knives in the chipper.

Essentially, the Traffic Light system alerts an operator to a problem before it becomes a major issue and therefore gives the opportunity for early action and is an excellent tool to assist in preventative maintenance.

For the wood yard there are detailed, HD video displays for Andritz chipper and crusher equipment as they are running, along with Smart Woodyard products like ChipperEKG and CrusherEKG online process monitoring combined with

advanced diagnostics. There are interactive tools for operations and maintenance, which can also include video transmitted from a helmet camera or smart glasses. Real-time information being fed back includes KPI calculations for availability, production, quality, and energy consumption.

The system can also 'publish' data from any operator interfaces that includes information supporting operators in their daily job, like Andritz WoodScan, BarkScan and ChipScanLT in the wood yard, as well as DD-Washers and K4000 chip level measurement in the fibrelines.

The DSW can be used for a variety of different purposes; for instance, selecting the 'Morning



Meeting' will enable all operators in the control room to have instant KPIs displayed, along with alarm statistics and a shift

logbook allowing a view of any vital information at the click of a mouse or touch of a screen. There can also be an instant

Internet connection with the experts at Andritz where any information can be shared and viewed for process optimization

or problem solving purposes. More information from Seppo Silenius at Andritz. Email: seppo.silenius@andritz.com



Three scenarios of the Decision Support Wall in action

1. Solving problems

- While conducting a field tour of the fibrelines, a service technician has been alerted to vibration issues on a pump. On returning to the control room, the service technician, together with two control room operatives gather at the DSW.
- The exploded view of the equipment under review is opened from the material library to allow closer inspection.
- The group examines the detailed material, along with the vibration data and a plan is put into place to solve the problem.

2. Remote trouble shooting with Andritz experts

- A bearing is repeatedly overheating and the operators decide to contact Andritz to help solve the reoccurring problem.
- They share the recorded DCS views, recorded equipment data, and video clips.
- Andritz experts access exactly the same information the mill control room has. With the same technology, Andritz also has Decision Support Walls in its remote control rooms (so called Customer Support Centers).
- Together the two groups solve the problem utilizing the DSW via real-time collaboration with access to all history and data.
- The operators add a "start monitoring" command on the bearing to make sure the problem is solved.

3. Communicating while in the mill

- A service technician goes into the mill for a routine equipment inspection and wants to check something with the control room.
- Using a helmet camera, a live video stream is sent to the control room operators.
- The stream automatically appears on the DSW, allowing the operators to view exactly what the field technician is enquiring about.
- The service technician communicates via radio phone and receives immediate answers from the control room.

Augmented reality and 5G technology used in paper mill maintenance

Maintenance management at Stora Enso's Oulu mill in Finland is being improved with the use of augmented reality (AR) and 5G technology.

Working with Sweden-based Telia Company, real-time information is being adopted to improve the operational reliability of the mill.

The application of augmented reality and virtual models enables the more rapid use of, for example, maintenance information. The system uses a virtual model of a machine and real-time data concerning information points.

"Stora Enso has an extensive digitalisation programme, which aims to increase sales and boost



our operations on our journey to replace fossil-based materials. Through our digitalisation programme, we have become pioneers in our industry in the utilisation of new technology," says Teemu Salmi, Stora Enso's chief information officer and head of

digitalisation.

With the new technology, all necessary information is easily and visually at the disposal of experts in real-time, regardless of physical location. The nearing introduction of fast 5G technology together with AR- and VR-technology and

360-degree views will enable real-time and rapid utilisation by experts between different units, irrespective of geographical distance.

"With our pilots in Oulu, we have explored the area where Internet of Things (IoT) and 5G solutions will most likely produce the first breakthroughs in introducing new, more effective processes. Solutions based on the collection, transfer and analysis of real-time data are the key to renewing industrial processes," says Janne Koistinen, head of the 5G program at Telia Finland.

More information from Telia Company AB, 169 94 Solna, Sweden. Tel: 46 8 504 550 00. Website: www.teliacompany.com

Testing instruments for the corrugated industry on show

Innovative testing instruments for the corrugated board industry were showcased by Emtec Electronic GmbH at the recent Corrugated Week in Indianapolis, Indiana.

The EST12 Surface & Sizing Tester determines surface parameters of paper and board relevant for the converting process, in particular the surface sizing / hydrophobicity and surface porosity. The tester enables converting properties, such as printability, gluability, coatibility and dusting tendency to be predicted. It enables the optimum runnability during the finishing or converting process of paper/board. An associated modular system PDA.C02



Penetration Dynamics Analyzer for more applications is available.

Also on show were CAS touch! and FPA touch!, which are charge measuring systems for the wet-end in paper and board production and are used to measure the

interaction between particles or fibres with additives and process chemicals in the pulp suspension. The use of both instruments in the production process helps to optimise the use of chemicals with the objective to stabilize the

process, to improve the product quality and to reduce cost.

The measuring method to measure mineral filler content with the ACA Ash Content Analyzer is non-destructive, and said to be quick, easy and accurate. It measures typical mineral filler and pigment content in paper and board, such as calcium carbonate, kaolin/talcum, titanium dioxide, and the total mineral filler content in per cent. It enables optimum process control due to instant availability of measuring results, and helps to narrow down the specifications for the filler content in the finished product and therefore to optimise the consumption of fillers.

More information from Emtec Electronic GmbH, Gorkistrasse 31, 04347 Leipzig, Germany. Tel: 49 341 24 5709 37. Website: www.emtec-electronic.com

One-piece forged Yankee dryer revealed by A.Celli

What is described as a revolutionary concept in the design of Yankee dryer (YD) shells has been launched by A.Celli Paper.

The Italy-based paper making machinery specialist has developed a way of making the shells from one-piece forgings with two goals: to minimise mechanical issues and maximise uniformity and heat transfer.

The iDEAL YD is characterised by a shell made using hot forging and rolling systems.

The result is said to be a highly innovative and seamless product that stands out for its exceptional quality of manufacture.

The homogeneous material and structure, free from residual stress, enables greater variation in operating pressure and enhanced safety by reducing the risk of failure.

The conventional method, which requires assembly using welded components, poses the risk of defects, says A.Celli; therefore regular maintenance and inspection is required throughout the life span of the vessel, reducing confidence and increasing cost from expensive inspections and loss of production due to periods of inactivity.

Other features of the iDEAL YD include the shape of its internal grooves; the patented shell corner minimises deformation and stress at the edges resulting in a thinner root, increasing drying capacity.

The head insulation system is novel, comprising a patented ceramic layer that reduces heat loss and steam consumption.

More information from A.Celli Paper SpA, Via Romana Ovest 252, 55016 Porcari, Lucca, Italy. Tel: 39 0583 21171. Website: www.acelli.it

Compact microwave humidity sensor from Cristini

A compact microwave sensor for measuring the humidity in sheets is to be launched at the MIAC Show in Lucca by Cristini Diagnostic Systems.

The SmartScan LM sensor is based on ultra-short microwaves for the accurate measurement of humidity in the sheet for low weights and humidity, typical of post-size positions.

This latest sensor completes the SmartScan family which is targeted for press sections already on the market, and has been installed on a number of machines in Europe and North America.

SmartScan sensors are engineered to overcome the typical limits of the NIR (Near Infrared) technologies. This new generation of sensors is characterised by what is claimed to be the most compact construction on the market, with single side measurement. These characteristics and the absence of reflectors and/or sensors on the reverse side of the sheet, enables a wider freedom in its installation.

More information from S.A. Giuseppe Cristini SpA, Via Bombardieri 5, 24020 Fiorano al Serio (BG), Italy. Tel: 39 035 715111. Website: www.cristini.com

'Game-changing' online condition monitoring system launched



An online condition-based monitoring (CBM) system offering real-time management of safety and business critical assets has been launched by UK-based AVT Reliability.

Machine Sentry MSO-1 is suitable for installation on equipment ranging from rotating machines to advanced turbo machinery such as power generators. The critical vibration data captured is stored in the Machine Sentry database where it is integrated with data from other condition monitoring techniques.

This detailed condition data can be securely accessed from anywhere in the world by using a standard web browser, allowing continuous monitoring, highly-critical asset management, failure detection and troubleshooting.

Its small size, low power consumption, Ethernet/Wifi/4G optional web connectivity, email alarm notification and high storage capability are said to make the system extremely easy to install, operate and maintain.

The latest version fully integrates and extends the current capacity of the Machine Sentry web platform and MSM-1 mobile sensor.

Frederic Thomas, managing director of AVT Reliability, says: "Machine Sentry MSO-1 is a genuine game changer. The Machine Sentry suite of products and software is a unique solution revolutionising the condition monitoring world and brings Industry 4.0 one step closer to reality.

"It can be installed and operated by experts and novices alike and offers ready access to detailed diagnosis and advice from AVT's world leading CM engineers – crucial features at a time of acute skill shortages in the manufacturing industry whilst driving for high availability of assets."

More information from AVT Reliability, Unit 2, Easter Court, Europa Boulevard, Warrington, Cheshire WA5 7ZB, UK. Tel: 44 161 486 3737. Website: www.avtreliability.com

First of five tissue lines at Yibin in China started up

Yibin Paper Co in China successfully started up its TM2 tissue making line in September, the first of an order for five machines, the remaining four of which will be commissioned before the end of 2018.

The paper maker, located at Yibin in central China, was founded in 1944 as China Paper Mill and now mostly makes high-grade paper-cup base paper and bamboo pulp.

The TM2 line, supplied by A.Celli Paper, has a design speed of 1,800 metres per minute, an operating



Yibin workers celebrate the start-up of their first tissue line

speed of 1,600 m/min and an untrimmed roll width of 2,850mm.

The project included the delivery of an iDEAL tissue

machine along with an Approach Flow system complete with Crescent Former machines, an MCS control system, an Air System

and a Dust Removal system.

A.Celli, based in Lucca, Italy, said that the start-up and subsequent running-in all went smoothly. Yibin's management are said to have expressed great satisfaction with the result and highly praised A.Celli's professional work.

When the five machines are running the tissue production capacity of the mill will be 120,000 tons a year. Yibin's capacity for paper cup base paper is 200,000 tons a year and for bamboo pulp is also 200,000 tons a year.

SCA Östrand's pulp mill capacity in Sweden more than doubled

The start-up of new technologies and equipment has been successfully completed at SCA's Östrand pulp mill in Sweden by Andritz.

At around US\$875 million, the mill expansion is the largest-ever industrial investment in northern Sweden. SCA Östrand is doubling its annual production capacity from 430,000 to 900,000 tons, making it the largest mill in the world for softwood kraft pulp.

The list of technologies is comprehensive.

It includes a complete debarking plant with two parallel debarking and chipping lines each consisting of a PowerFeed de-icing conveyor, a hydrostatically-supported debarking drum measuring 5.5 x 39 metres with a capacity of 425 cubic metres sob/h, and a horizontally-fed, XL-size HHQ-Chipper operating with a TK-IV

knife system. The delivery also includes two new-generation HQ-Press bark presses resulting in excellent bark dry content, as well as modernisation of the existing chip-handling system.

The pulp drying system includes an EvoDry system with energy-saving technologies that reduce the mill's operating costs, including a boiler-exhaust energy-recovery system, fine screening, a twin-wire dewatering system with a fully-automatic tail-threading system to meet strictest health, safety, and environmental regulations, a new-generation sheet dryer for lowest downtime and fast start up, as well as a cutter and two baling lines.

New recausticising machinery includes a LimeGreen green liquor filter providing efficient filtration with a minimum of waste going to landfill, two LimeFree

centrifuges for dregs, LimeSlake technology, LimeWhite disc filter to optimise white-liquor quality, and a LimeDry lime mud disc filter upgrade.

The capacity of the existing lime kiln was increased without the need for a new replacement by using LimeFlash technology. The delivery also included upgrade of the existing wood dust burning system, which Andritz supplied in 2011.

The recovery boiler capacity was increased from 3,300 to 5,000 tds/d. The existing boiler had been supplied by Andritz in 2006 and had been designed to enable a major extension by moving the boiler side wall and widening the heating surfaces of the superheater, boiler generation bank, and economisers.

The boiler extension enables optimum flue gas flux before and



SCA's Östrand investment makes it the biggest softwood kraft pulp mill in the world

after the rebuild, which is said to offer great benefits compared to traditional technology for expanding the recovery boiler, by moving its front wall. The total increase of the boiler width was 3.8 metres. In addition to boiler enlargement, one additional electrostatic precipitator chamber and feed water pump were added.

Expansion into containerboard and packaging for Copamex in México

As part of expansion plans by Copamex in México to grow into the containerboard and packaging markets, it has ordered a stock preparation system for its mill at Anáhuac from Voith.

The mill is being converted and a BlueLine stock preparation system is part of the project.

Until recently, Monterrey-based Copamex has been focusing on printing and writing grade paper, but the new BlueLine stock preparation system from Voith is a key step in its expansion plans. The system will use a variety of raw materials including old corrugated containers (OCC) and mixed waste.

"By partnering with Voith, we're working with the company that has the most knowledge in processing highly-contaminated



Copamex's Anáhuac mill will have capacity to produce 260,000 metric tons of testliner and corrugated medium per year

furnish, and this will assist us with successfully launching our growth in the containerboard and packaging markets in México," said Alonso González, chief executive of Copamex.

"The Voith team consistently understands the needs of our projects and customizes our stock preparation systems accordingly."

As the a full-line supplier,

Voith and MERI will be providing Copamex with all of the elements of the stock preparation system, including material handling with automatic wire cutting, reject compactors, sludge handling, water clarification and effluent treatment. During the project, a number of steps have been taken to limit energy and water consumption, as well as making waste

management improvements.

When the new stock preparation system starts up in early 2019, the mill will have capacity to produce 260,000 metric tons of testliner and corrugated medium per year for use in containerboard production.

"Copamex is known for their quality, innovation and versatility. Earning their continued business speaks volumes about our relationship and our experience with this type of raw material," said Michael Hmielewski, project sales chief for stock preparation at Voith North America.

"When we worked together on other projects, we worked beside Copamex throughout every step of the process and we look forward to supporting them again as we all bring our expertise to this new facility in Anáhuac."

New thermo-mechanical pulp line for Kabel in Germany

Germany's Kabel Premium Pulp & Paper has awarded Pöyry with the detailed engineering services assignment for a new advanced thermo-mechanical pulp (ATMP) line at Hagen, Germany.

The project includes process engineering, mechanical engineering, electrical, automation and instrumentation engineering, as well as permitting engineering and project scheduling.

Kabel Premium Pulp & Paper

(KPPP) produces high quality paper on two paper machines at Hagen mill, which is planning to use thermo-mechanical pulp as a raw material for paper production in addition to existing ground wood and virgin pulp.

To ensure future demand for raw materials, KPPP will set up a new 100,000-ton capacity ATMP plant, using spruce wood chips exclusively.

"The installation of the new ATMP plant is a further step towards producing a new sort of paper in a resource-friendly

way. We trust that Pöyry is the right partner for this investment in the future of our company," says Dr Burkhart, managing director at KPPP.

Christian Beyer, head of Pöyry's industry business group for central Europe, said: "Pöyry is delighted to support Kabel Premium Pulp & Paper GmbH with detailed engineering services for a new ATMP plant. Combining our local presence in Germany with global competences enables us to find the best possible solution for our client."

New Pope Winder for Burgo Group in Italy

Italian graphic and special paper producer Burgo Group has acquired a pope winder from A.Celli for its facility in Lugo di Vicenza.

By the end of August, Italy-based A.Celli Paper's Customer Service team was due to install the complete winder alongside a pre-existing plant for the production of special papers.

The order included, in addition to nip control and an assisted transmission system for secondary carriages and primary arms, a new integrated supervision system which will interface with the current DCS system at the paper mill.

Kimmo Naski elected chairman of the Baltic Ports Organisation

Dr Kimmo Naski, the chief executive of the Port of HaminaKotka, has been elected as the new chairman of the Baltic Ports Organisation (BPO), after a period as vice chairman.

He has managed HaminaKotka's operations since 2011, prior to which he led the Ports of Kotka and Pori respectively as managing director from 2002 to 2011 and

Port Director in the years 1998 to 2002. Dr Naski joined the industry 1988, as Viking Line Finlandverkehr's vice managing director for continental Europe, Baltic States and Russia until 1998.

Dr Naski is also the chair of the Logistics Committee of the German-Finnish Chamber of Commerce, Board Member of the Finnish Central Chamber of Commerce and British Honorary Consul.

Commenting on his appointment Dr Naski said: "BPO was established in 1991. Since then it has been doing a great job in promoting and networking the Baltic Sea Ports. I strongly believe this is also the right way to meet the future."

Dr Naski succeeds Julian Skelnik, who has been a prominent figure in the BPO and the Baltic maritime community for more than 11 years.



Kimmo Naski, new chairman of Baltic Ports

Alberto Redaelli joins MTC as sales director for the Americas

Alberto Redaelli has been appointed as sales director for the Americas for MTC, which develops, manufactures and sells of interfold/multifold lines and napkin machines for tissue paper products.

Redaelli will directly report to Andrea Tonini, global sales director of Fold at MTC, which is part of the Tissue Business Area of Körber AG. With Fabio Perini SpA and Engraving Solutions, Körber is capable of manufacturing complete production lines for

tissue products: rolls and folds.

Previously with OMET, Redaelli has 30 years of experience in sales and in introducing products and services in new markets.

Redaelli will have the responsibility of promoting Fold lines in the Americas and he will be supported by a strong sales and engineering team to develop the existing business and new accounts.

Commenting on his appointment, Redaelli says: "MTC has a fantastic portfolio and

products that will really make a difference to the range of products a converter needs. Our machines provide cutting-edge technology, top-notch machines and finished products quality, along with speed, efficiency and the highest level of technical service and support. I am very happy to introduce our exciting innovations to customers in the market."

Chief executive of Körber Tissue Oswaldo Cruz said: "MTC has completed our Tissue Business Area strategic vision for the tissue



MTC's sales director for the Americas Alberto Redaelli

market. Today we are the global partner for our customers with the best solutions product portfolio by far. We are very satisfied to have Alberto in our group, and thanks to MTC, our business area will continue to keep our customers in the lead."

Sue Cooling appointed commercial manager at Pollard Group

UK-based rigid box specialist the Pollard Group has strengthened its customer service with the appointment of Sue Cooling as commercial manager.

Cooling will be responsible for the management of Pollard's customer service and design teams, integrating the service offered by both Pollard Boxes and

Clarke Rubicon, to ensure a high level of support throughout every customer project, from initial enquiry through concept and design to finished box.

Cooling joins Pollards with 23 years of experience in sales and customer service management roles, including the project management and successful

implementation of two CRM and ERP systems "We are delighted to welcome Sue to the team," says Pollard Group commercial director Peter Conner.

"With much of our business focused on the luxury sector, we recognise that today's brands require a highly-tuned and



Pollard Group's Sue Cooling

responsive service from suppliers. Sue's extensive experience and skillset will play a key role in meeting our objective to be the very best in our field."

Message from the Publisher

More content of interest to the pulp and paper industry

Welcome to an update from Pulp Paper & Logistics magazine and our 2019 schedule of contents. The magazine is driven by the industry we serve and from continuing feedback from readers we have incorporated the most important subjects into the issues being published in 2019.

Increase in circulation

Having completed our annual reader re-registration it is pleasing to note that while we have nominally increased the circulation of the print issue there has been a significant increase in the number of requests for the full PDF version.

High pass-on rate

Last year we asked readers about their use of the full PDF version and on average they passed it to a minimum of two other individuals. This appears to have driven a surge in requests for regular receipt of the magazine in this format.

Influential reader profile

Most readers are those who can influence or authorise a purchase and more than 87 per cent are based at paper, tissue, board or packaging manufacturers/mills, with job titles that range from chief executive level to mill managers. The remaining 13 per cent represent suppliers to the pulp and paper industry, consultants, government and converters. When the requests are combined for both the printed issue and full issue PDF the reach of Pulp Paper & Logistics exceeds 18,500 individuals, even without counting pass-on readers.

Content relevant to readers

Another part of the positive feedback from the readers has been the relevancy of the magazine's content, and how they felt it related to their activity, all the way from the production process through to the transportation of the finished product.

To find out more and how you can take an active role within Pulp Paper & Logistics contact Vince Maynard for any editorial or advertising enquiries, by email at pulppaperlogistics@virginmedia.com or by telephone at +44 (0) 1732 505724

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PULP PAPER & LOGISTICS

Editorial schedule

Issue 51, November/December 2018

Logistics & product handling update
Machine clothing (including rolls, wires, felts, belts, ropes and blades)
Machine rebuilds and refurbishment

2019

Issue 52, January/February 2019

Automation and process control technology
Recycling & Deinking technology
Predictive maintenance systems

Issue 53, March/April 2019

Machine clothing (including rolls, wires, felts, belts, ropes and blades)
Felt management and inspection
Packaging production and associated equipment

Issue 54, May/June 2019

Zellcheming Frankfurt pre-show news
Annual Shipping, Ports, Handling, Wrapping and Warehousing focus (includes cranes/forklifts)

Environmental compliance and water treatment & management

Drive systems and bearing design and maintenance

Issue 55, July/August 2019

Machine clothing (including rolls, wires, felts, belts, ropes and blades)
Efficient mill energy management (including servo drives & controls)

Converting machinery

Issue 56, September/October 2019

MIAC 2019 Pre-show issue
Tissue finishing machinery & equipment and associated technology
Data protection at the mill and Industry 4.0 systems
Safety systems

Issue 57, November/December 2019

Logistics & Product Handling Update
Machine clothing (including rolls, wires, felts, belts, ropes and blades)
Drying technology including Yankee design



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